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(71)Applicant : TDK CORP

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(72)Inventor : KOBORI ISAMU
INOUE TETSUJI
FUJITA TETSUJI
NAKATANI KENJI

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(54) ORGANIC ELECTROLUMINESCENT ELEMENT

(57)Abstract:

PROBLEM TO BE SOLVED: To efficiently emit the blue light with excellent reliability by including a hole injection transporting compound and/or an electron injection transporting compound included in a hole transfer layer and/or an electron transfer layer as a host compound in a blue light emitting layer.

SOLUTION: As a host compound to be included in a blue light emitting layer, a compound, which emits the blue light, such as a phenylanthracene derivative is desirably used. In the case where the host material of the blue light emitting layer does not have the blue light emitting characteristic, a dopant can be used so as to change the light emitting characteristic for blue light emission, and as a dopant, a styryl group amine compound or the like is used. As the blue light emitting layer, a mixture layer of an electron injection and transfer compound (A) and a hole injection and transfer compound (B) can be used. In this case, the component A and the component B can be mixed evenly, or distributed in the film thickness direction so that concentration of the component B is higher at a hole transfer layer side and that concentration of the component A is higher at the electron transfer layer side.